

Figure 6

Retention Receiver (FIGURE 6)
AVOX SYSTEMS P/N 345-30 NSN 1660-00-717-2412
Similar to P/N 345-301 but features a self-aligning tooth mechanism that permits bayonet assembly over a 15-degree range of adjustment after positioning of mask on the face of the wearer.



Figure 7

Connector CRU-60/P (FIGURE 7)
AVOX SYSTEMS P/N 266-601B NSN 1660-00-076-9662 MIL-C-38271 (USAF)
Designed to mate with the standard 3-pin Bayonet Connector (P/N 266-114), it features an omnidirectional disconnect, ensuring proper alignment of the bailout cylinder hose connector. The CRU-60/P is normally mounted on Mounting Plate, P/N 266-216.



Figure 8

Parachute Mounting Plate (FIGURE 8)
AVOX SYSTEMS P/N 266-216 NSN 1660-00-656-2522 USAF DWG. 57-B-3657
Dovetail design of the mounting plate assures positive locking action and prevents possibility of the CRU-60/P Connector flailing about. Fits with AVOX Systems P/N 266-601B, 259-170 and 266-370.



Figure 9

Straight Bayonet Connector (FIGURE 9)
AVOX SYSTEMS P/N 345-01 NSN 1660-00-066-2077 USAF DWG. 63-C-4228
Fits on right or left side. Provides double-strap retention to masks and prevents vertical slippage of mask during “G” loading. Two required for assembly.

WARNING

IMPROPER USE OR IMPROPER MAINTENANCE OF THIS EQUIPMENT MAY RESULT IN SERIOUS INJURY OR DEATH. ANY SERVICE, OVERHAUL OR REPAIR OF AVOX SYSTEMS OXYGEN MASKS SHALL BE DONE ONLY AT APPROPRIATELY EQUIPPED FACILITIES AND BY SPECIALLY TRAINED PERSONNEL WITH COMPLETE WORKING KNOWLEDGE OF HIGH-PRESSURE OXYGEN EQUIPMENT. FOR SERVICE INFORMATION, SEE USAF T.O. 15X5-3-6-1

AND USAF T.O. 15X5-4-1-101, OR CONTACT AVOX SYSTEMS DIRECTLY FOR NAMES OF AVOX SYSTEMS AUTHORIZED SERVICE CENTERS.

ALL PERSONNEL REQUIRED TO USE MBU-12/P MASKS SHOULD RECEIVE PROPER TRAINING PRIOR TO USING THIS EQUIPMENT. MBU-12/P MASKS SHALL BE USED ONLY WITH AVIATORS BREATHING OXYGEN, PER MIL-PRF-27210.



AVOX Systems

225 Erie Street • Lancaster, NY 14086 • Tel: 716 683-5100 • Fax: 716 681-1089 • Technical Sales: 800 459-3690

Oxygen and life support

Oxygen and life support



Pressure Demand Oxygen Mask

USAF DESIGNATION: TYPE MBU-12/P P/N 834 SERIES



The AVOX Systems developed and mass-produced MBU-12/P crew oxygen mask contains important features that qualify it for use in most current high-performance aircraft. As a result, the U.S. Air Force selected the MBU-12/P as its standard crew oxygen mask.

The MBU-12/P provides for increased head mobility, better downward vision, and greater mask stability during high “G” maneuvers. AVOX’s highly reliable P/N 211 Series inhalation/exhalation valve is an integral part of this pressure-breathing system.

For service instructions, see USAF T.O.’s 15x5-3-6-1 and 15x5-4-1-101.

OUTSTANDING FEATURES

- Wider, more comfortable face seal
- Anti-roll face seal webs at nose area
- Improved retention
- Improved downward vision
- Soft, supple silicone rubber used in all elastomeric components



AVOX Systems



Ordering Information			
AVOX P/N	NSN P/N	Size	Color
834-00	(1)	X-Short	Green
834-01	1660-01-140-9399	Short	Green
834-02	1660-01-140-9400	Regular	Green
834-03	1660-01-140-9401	Long	Green
834-04	1660-01-140-9402	X-Long	Green
834-52-01	(1)	X-Short	Grey
834-52-02	(1)	Short	Grey
834-52-03	(1)	Regular	Grey
834-52-04	(1)	Long	Grey
834-52-05	(1)	X-Long	Grey
834-75-1	1660-01-081-9157	Short	Grey
834-75-2	1660-01-073-7595	Regular	Grey
834-75-3	1660-01-073-7596	Long	Grey
834-75-4	1660-01-081-2368	X-Long	Grey
834-75-5	*1660-01-216-3275	Short	Green
834-75-6	*1660-01-216-3276	Regular	Green
834-75-7	*1660-01-217-0304	Long	Green
834-75-8	(1)	X-Long	Green
834-75-9	(1)	X-Short	Green
834-75-10	1660-01-363-0386	X-Short	Grey

*=USN (1)=Not Assigned

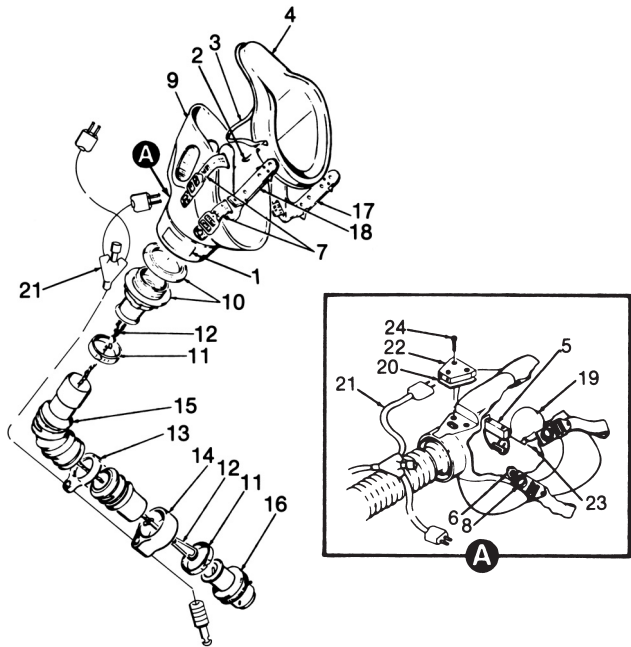
Masks ordered by AVOX Systems Part Numbers 834-00 through 834-04 and 834-52-01 through 834-52-05 or their corresponding NSNs (see above) are complete assemblies, ready to use in an aircraft.

Note

Masks orders by AVOX Systems Part Numbers 834-75-1 through 834-75-10 or their corresponding NSNs (see above) **do not** include the oxygen connector (P/N 266-114), microphone, communications cable, or offset bayonet connectors.

Detailed Parts Breakdown – MBU-12/P Oxygen Mask

Typical configuration shown for parts identification only.



Parts List		
Item	Part No.	Description
1	834-16-21	Label, ID, Size Short
	834-16-22	Label, ID, Size Regular
	834-16-23	Label, ID, Size Long
	834-16-24	Label, ID, Size X-Long
	834-16-46	Label, ID, Size X-Short
2	–	Staple
3	00-4001	Webbing, Elastic
4	834-48	Dust Cover
5	00-6268	Bracket, Microphone
6	00-5401	Screw, Self Locking
7	834-11	Strap & Buckle (4 Required)
8	834-12	Teenut, Capped
9	834-25-1	Hard-shell & Face Piece, Short
	834-25-2	Hard-shell & Face Piece, Regular
	834-25-3	Hard-shell & Face Piece, Long
	834-25-4	Hard-shell & Face Piece, X-Long
	834-25-9	Hard-shell & Face Piece, X-Short
10	211-60	Valve Assembly
11	450-134A	Clamp
12	339-06-1	Cord & Snap
13	249-425	Cable & Guide
14	450-13	Cable & Guide
15	834-18	Delivery Tube
16	266-114	3-Pin Bayonet Connector
17	00-5663-1	Bayonet, LH
18	00-5663-2	Bayonet, RH
19	00-1587	Microphone, Dynamic
20	834-42	Gasket
21	00-849	Comms. Cable & Plugs
22	834-37	Connector
23	33359-204	Screw
24	MS35275-207	Screw

Tool Kit – P/N 450-50	
For field repair of the MBU-12/P Mask. Kit includes:	
Components	P/N
Elastrator	00-6297
Valve Wrench	211-838-1
Adjuster & Hose Clamp Tool	450-813
Sizing Caliper	834-800
Microphone Insertion Tool	520-615

Major Parts and Accessories



Figure 1

Combination Valve (FIGURE 1)

AVOX SYSTEMS P/N 211-60 NSN 1660-01-443-8133 MIL-V-27296 (USAF)

This valve is an integral part of the USAF MBU-12/P Oxygen Mask Assembly. It features a pressure-breathing compensated combination inhalation/exhalation valve with silicone elastomers.



Figure 2

Microphone Type M-101/AIC (FIGURE 2)

AVOX SYSTEMS P/N 00-1587 MIL-M-27297

Frequency Response 400-5000 Hz
Sensitivity 2.5-5.0 MV
Sound Level at 1/4" 74 db
Impedance 7 +/- 2 ohms
Output 37 μV
Rated Load 7 ohms



Figure 3

Communication Cord and Plug Assembly (FIGURE 3)

AVOX SYSTEMS P/N 00-849 NSN 5995-00-818-5368

A 4-wire communications cable with U-173/U plug attachment for mask microphone and earphones. Terminates with a U-174/U plug.

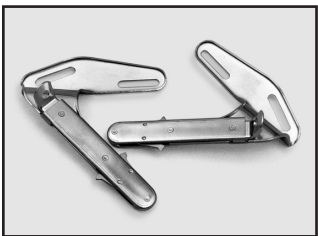


Figure 4

Offset Bayonet Connectors (FIGURE 4)

AVOX SYSTEMS P/N'S 00-5663-1 (LEFT) 00-5663-2 (RIGHT)

One each required per mask assembly.



Figure 5A

3-Pin Bayonet Connector (FIGURE 5A)

AVOX SYSTEMS P/N 266-114 NSN 1660-00-730-2247
USAF DWG. 57-B-3661

U.S. Air Force standard three-prong bayonet connector, a part of the MBU-3/P, MBU-4/P, MBU-5/P, and MBU-12/P Mask Assemblies, is designed to mate with the CRU-43A/A and CRU-60/P Connectors.

Figure 5B

Pressure Reducer, In-Line Adapter

CRU-43A/A (FIGURE 5B)

AVOX SYSTEMS P/N 258-170 NSN 1660-00-682-5387

USAF P/N 67-C-25003

MEETS REQUIREMENTS OF MIL-A-27471

CRU-43A/A Adapters are designed to adapt high-altitude seat kit oxygen systems to standard Pressure-Breathing Oxygen Masks. The CRU-43A/A Adapter includes a pressure reducer to reduce pressure in the suit controller helmet line by a ratio of 2 to 1. The seat kit regulator then adjusts to a pressure compatible with the MBU-12/P Oxygen Mask. The capacity of all standard seat kit oxygen systems, however, is insufficient for other than brief emergency use above 30,000 feet altitude.